Mitsubishi XantarÂ® C CM 206 U Polycarbonate/ABS Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

XantarÂ® materials are engineered for performance, consistency and reliability. This makes XantarÂ® resins ideal for interior automotive components, electrical equipment and consumer appliances where quality is a key requirement. The XantarÂ® range includes: clear and tinted grades for transparent applicationsreinforced materialsFlame retardant and halogen free typeslubricated materials for added wear resistanceMitsubishi Engineering Plastics acquired the XantarÂ® product line from DSM in 2010.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Mitsubishi-Xantar-C-CM-206-U-PolycarbonateABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/inÂ³	ISO 1183
Water Absorption	0.70 %	0.70 %	Sim. to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Humidity Absorption; Sim. to ISO 62
Melt Flow	44.8 g/10 min @Load 5.00 kg, Temperature 260 Â°C	44.8 g/10 min @Load 11.0 lb, Temperature 500 Â°F	Calculated from Volume Flow Rate of 40 cm³/10min.; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-1/-2
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/mÂ² @Temperature -40.0 Â°C	7.14 ft-lb/inÂ² @Temperature -40.0 Â°F	ISO 180/4A
	30.0 kJ/mÂ² @Temperature -20.0 Â°C	14.3 ft-lb/inÂ² @Temperature -4.00 Â°F	ISO 180/4A
	65.0 kJ/mÂ² @Temperature 23.0 Â°C	30.9 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180/4A

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ISO 179/1eU
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	3.50 J/cmÂ² @Temperature 23.0 Â°C	16.7 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 Âµm/m-Â°C @Temperature 20.0 Â°C	44.4 Âµin/in-Â°F @Temperature 68.0 Â°F	ISO 11359-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	ISO 75-1/-2
Vicat Softening Point	110 Â°C	230 Â°F	50Â°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	IEC 60695-11-10
Oxygen Index	21 %	21 %	ISO 4589-1/-2
Glow Wire Test	675 Â°C @Thickness 1.50 mm	1250 Â°F @Thickness 0.0591 in	Glow Wire Flammability Index; IEC 60695-2-12
	675 Â°C @Thickness 3.00 mm	1250 Â°F @Thickness 0.118 in	Glow Wire Flammability Index; IEC 60695-2-12
	700 Â°C @Thickness 1.50 mm	1290 Â°F @Thickness 0.0591 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	700 Â°C @Thickness 3.00 mm	1290 Â°F @Thickness 0.118 in	Glow Wire Ignition Temperature; IEC 60695-2-13

Electrical Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Comparative Tracking Index	275 V	275 V	IEC 60112
	>= 600 V	>= 600 V	PLC 0; UL 746A

Descriptive Properties	Value	Comments
Injection molding	Yes	
Light stabilized or stable to light	Yes	
Release Agent	Yes	
U.V. stabilized or stable to weather	Yes	
Without Fillers	Yes	

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